

Report on Energy & Environmental Audit

**KVSR Siddhartha College of
Pharmaceutical Sciences**
Siddhartha nagar, Vijayawada - 520 010



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INTRODUCTION

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An annual ritual of routine power consumption monitoring at the institute is called energy auditing. Energy audit is described as "the verification, monitoring, and analysis of use of energy, including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption" in the Energy Conservation Act of 2021. KVSR Siddhartha College of Pharmaceutical Sciences has put a lot of effort into raising awareness of energy alternatives like solar energy among students, teachers, and other staff members in order to implement an energy-efficient campus successfully. As the need to protect the environment has gained international attention in recent years, KVSR Siddhartha College of Pharmaceutical Sciences has also seen it as crucial to work sincerely on environmental awareness projects alongside green energy programmes. Every member or cell of the institution makes every effort in its pursuit of a clean, green, and energy-efficient campus to instil in students a sense of responsibility for the maintenance of a healthy environment through a variety of projects and programmes.

Energy conservation

The college has turned to strategies for saving electricity in light of the growing awareness of the need to do so. The transition to solar energy is being worked on in stages. The design of the classrooms and laboratories allows for adequate light and ventilation during class hours, which saves a significant amount of electricity. KVSR Siddhartha College of Pharmaceutical Sciences has begun replacing all existing bulbs and lights with LED lights in an effort to conserve energy. Ceiling fans with a 5-star rating are intended to use less energy.

Use of renewable energy

The college has adopted strategies to transition from traditional electricity sources to renewable ones. The college has installed a solar energy plant to meet the pressing needs of various departments during blackouts. The amount of energy generated can run the bare minimum number of lights and fans.

E-waste management

E-wastes such as damaged computer parts, batteries, electronic items, electrical appliances, empty toner containers, are disposed as scrap and given away to agencies and the municipal corporation, that recycle such products.

OBJECTIVES

OBJECTIVES

1. To study present level of Energy Consumption
2. To assess the various equipment/facilities from Energy efficiency aspect
3. To study Scope for usage of Renewable Energy
4. To study various measures to reduce the Energy Consumption

METHODOLOGY

METHODOLOGY

The purpose of the energy audit of KVSRSOPS is to ensure that the practices followed in the campus are in accordance with the Energy audit Policy of the country.

The methodology includes:

- a) Collection of data
- b) Physical inspection of the campus
- c) Observation and review of the documentation and data analysis

ABOUT THE COLLEGE

ABOUT THE COLLEGE

(sponsored by Siddhartha Academy of General & Technical Education) and was affiliated to Acharya Nagarjuna University, Guntur. From 2010 onwards the institution is affiliated to Krishna University, Rudravaram, Machilipatnam, Andhra Pradesh. This is the first private (self-financed) institution established in the combined state of Andhra Pradesh. The college offers 4-year Undergraduate (B.Pharmacy) and 2-year Postgraduate (M.Pharmacy) , 6 year Pharm D degree and 3 year Pharm D. Post Baccalaureate degree programs. The Institution is approved by the All India Council for Technical Education (AICTE) and Pharmacy Council of India (PCI). Over the years KVSR Siddhartha college of pharmaceutical sciences has carved a niche for itself by becoming a center of excellence in the field of pharmaceutical education. The college is ideally located at Siddhartha Nagar in the heart of Vijayawada city. The college is situated in a vast building, which is in close proximity to other major educational institutions run by the Siddhartha Academy enabling it to interact closely with them in matters of academic and professional programs.

VISION & MISSION STATEMENT

VISION AND MISSION STATEMENT

Vision

To create competent pharmacy professionals capable of working in multifaceted environment.

Mission

To impart quality education and training for pharmacy students in order to empower them as well qualified and highly competent professionals.

ELECTRICAL CONSUMPTION AT KVSRS COPS

LIST OF POWER EQUIPMENTS

ROOM NO.	FANS	TUBE LIGHTS	LED TUBES	A.C	COMPUTERS	PRINTERS	PROJECTORS	LAB APPARATUS	OTHERS
101	14	1	21		7	1			2 C.C, 1 exhaust fan

									1 T.V, 1 refrigerator, 1 coffee maker
102	5	5	8	1	1	1			
103	5	5	1						1 drinking water cooler
104	3	6						19	1 exhaust fan
105	2	2			1	1		1	
106	2	5	1					5	2 exhaust fans
107	1	2							
Seminar hall	15	25		6	1		1		1 C.C, 1 sound adjustor, 6 speakers
109	6	6						25	2 exhaust fans, 1 refrigerator, 1 water purifier
110	3	2			1	1	1		
111	6	4					1		
112	5	23		2	5	1		13	1 refrigerator
Gents washroom		1							
Animal house	5	4	3	2					3 exhaust fans
Security room	1		2						
Generator room			1						
Corridor		10	8						4 C.C, 1 lift, 2 mortars
201	3	2							
202	9	7	1				1		
203	4		5						2 exhaust fans, 1 purifier
204	3	5	1					2	3 exhaust fans, 1 refrigerator, 1 vacuum pump
205	1	2			1	1			
206	2	5	1					2	3 exhaust fans
207	1	2						7	
Ladies staff washroom		1							
208	3	2							
209	5	4						2	1 exhaust fan
Exam cell	2	1	1						
210	1	2							
Boys washroom		1							
211	3	3			4	1			
212	6	4							
213	8	8	3	1	5	2		18	1 exhaust fan, 1 refrigerator
214	4	2							

215	6	3	1						
216	4	6			1			10	2 exhaust fans
Corridor		6							2 C.C
301	3	2							
302	4	5	1				1		
303	10	5	1				1		
304	3	7						29	
305		1	1						
306	1	1			1	1			
307	6	4	1	1				27	
308	6	5							
Gents staff washroom			1						
309	9	9						13	
310	2	2	1						
311	2	4							2 exhaust fans
312	1	5						4	
313	6	5	1		1			18	
314	6	2							
315	4	4	5						
316	3	5			1	1		6	
Corridor			7						2 C.C
401	12		10				1		
402	6		2						
403	9		16		40				
404	5		5				1		
405	3		2				1		
406	3		3				1		
407	3		3				1		
408	3		3						
409			2						1 exhaust fan
410	3		3						
411	5		3		1	1			
412	1		16	4					1 Air blower, 1 Refrigerator
SPIIC	28		76	8	7				1 Refrigerator, 2 C.C
Corridor			10						2 C.C

Power consumption as per academic year (2017 July-June 2018)

S.No	Month	Consumption units (KW)	Consumption amount
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1	July 2017	5180	63,461
2	August 2017	5227	72,553
3	September 2017	5525	67,113
4	October 2017	5878	67885
5	November 2017	5740	66796
6	December 2017	3416	41,659
7	January 2018	5450	63,250
8	February 2018	5107	54,099
9	March 2018	5777	60,891
10	April 2018	7006	87,133
11	May 2018	5457	58,811
12	June 2018	8043	85,318

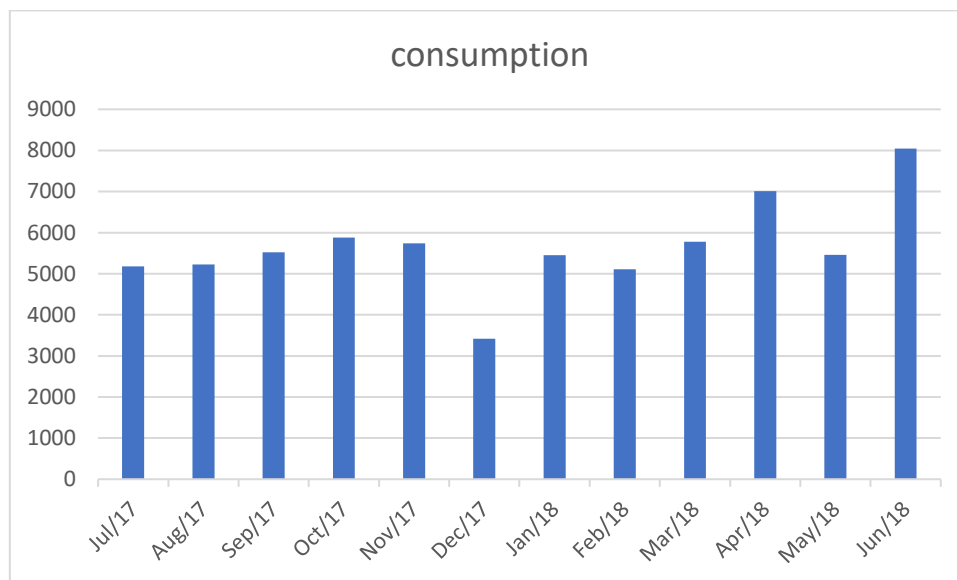


Chart.1: Monthly Unit consumption variation (Kw)

Power consumption as per academic year (2018 July-June 2019)

S.No	Month	Consumption	Consumption
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		units (KW)	amount
1	July 2018	7709	82,269
2	August 2018	7214	82,608
3	September 2018	8266	96,207
4	October 2018	7650	89,068
5	November 2018	6731	77,254
6	December 2018	5511	65,673
7	January 2019	6158	66,675
8	February 2019	7145	84,709
9	March 2019	10,896	1,26,216
10	April 2019	9004	1,01,105
11	May 2019	10,511	1,18,578
12	June 2019	11,138	1,42,813

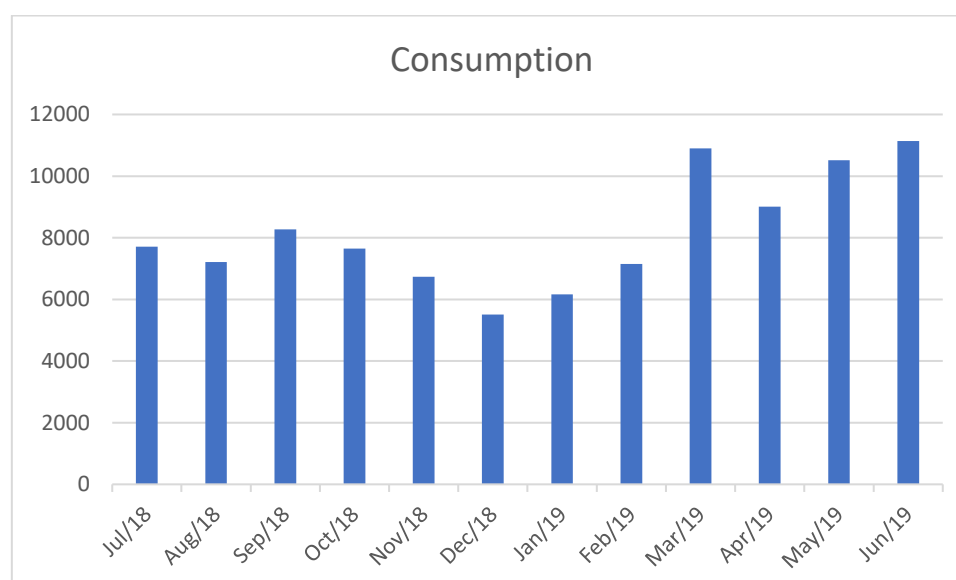


Chart.2: Monthly Unit consumption variation (Kw)

Power consumption as per academic year (2019 July-June 2020)

S.No	Month	Consumption	Consumption
------	-------	-------------	-------------

		units (KW)	amount
1	July 2019	10,424	1,20,290
2	August 2019	7,568	88,711
3	September 2019	7423	80,797
4	October 2019	9266	98,196
5	November 2019	8471	89,962
6	December 2019	7455	74550
7	January 2020	10379	85386
8	February 2020	10379	90556
9	March 2020	11193	83687
10	April 2020	10012	38084
11	May 2020	3603	47581
12	June 2020	4715	54036

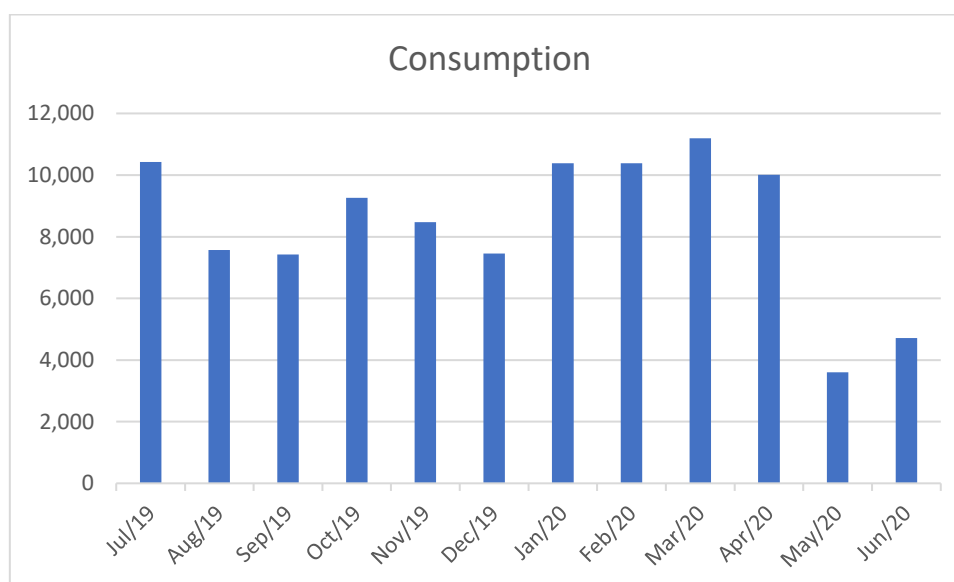


Chart.3: Monthly Unit consumption variation (Kw)

Power consumption as per academic year (2020 July-June 2021)

S.No	Month	Consumption	Consumption
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		units (KW)	amount
1	July 2020	5702	63979
2	August 2020	5333	57649
3	September 2020	4560	63590
4	October 2020	5296	66365
5	November 2020	5633	75994
6	December 2020	6803	79656
7	January 2021	7245	99227
8	February 2021	7673	104066
9	March 2021	11240	129932
10	April 2021	12870	141123
11	May 2021	10948	121359
12	June 2021	3664	80350

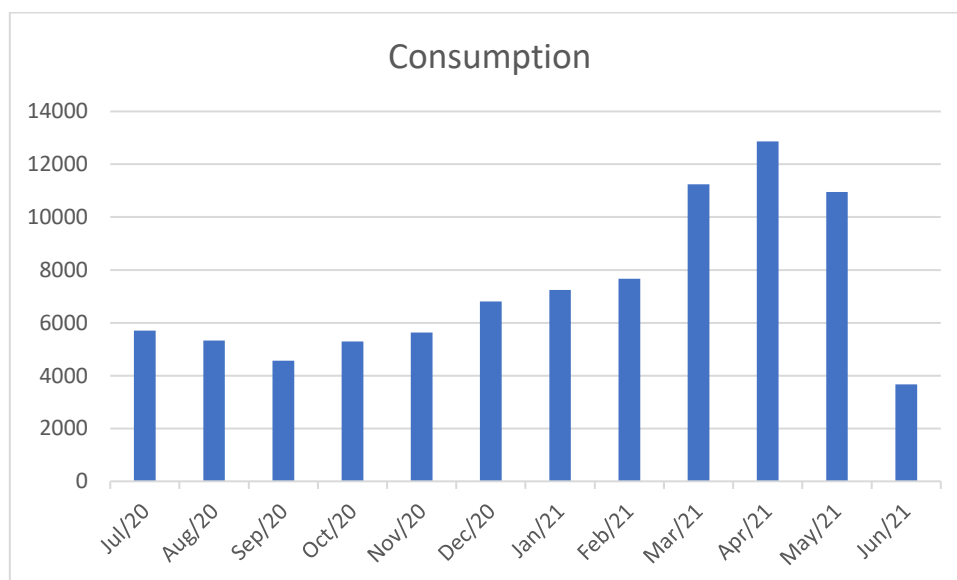


Chart.4: Monthly Unit consumption variation (Kw)

Power consumption as per academic year (2021 July-June 2022)

S.No	Month	Consumption	Consumption
------	-------	-------------	-------------

		units (KW)	amount
1	July 2021	4839	74244
2	August 2021	8607	89077
3	September 2021	10957	121359
4	October 2021	11802	129932
5	November 2021	11615	113077
6	December 2021	9459	95756
7	January 2022	9822	98830
8	February 2022	9049	93057
9	March 2022	9011	93495
10	April 2022	14845	146766
11	May 2022	15143	163777
12	June 2022	13268	142322

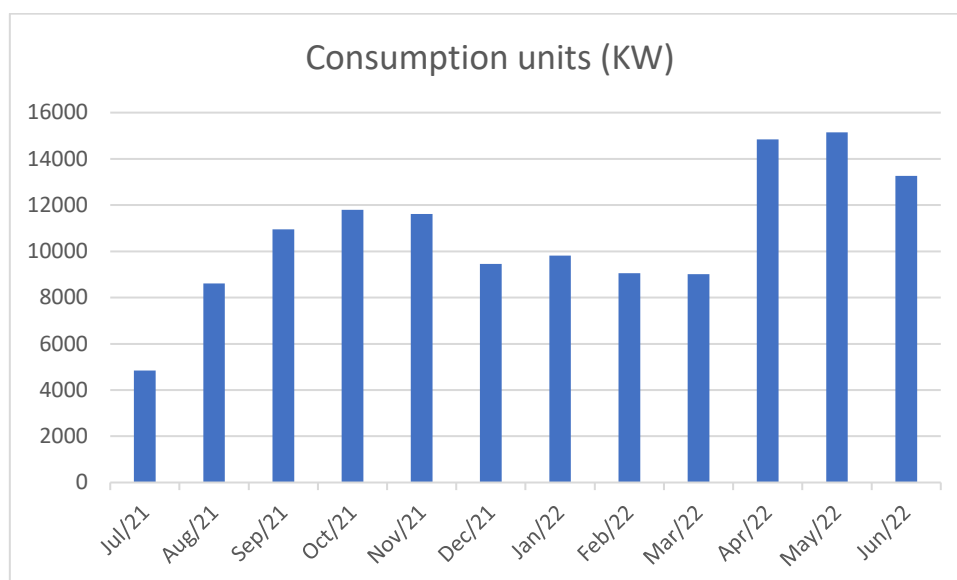


Chart.5: Monthly Unit consumption variation (Kw)

S.No	Month	Consumption units (KW)	Consumption amount
1	July 2022	12978	141123
2	August 2022	12942	138080
3	September 2022	12947	123079
4	October	10373	113878
5	November	9746	104224
6			

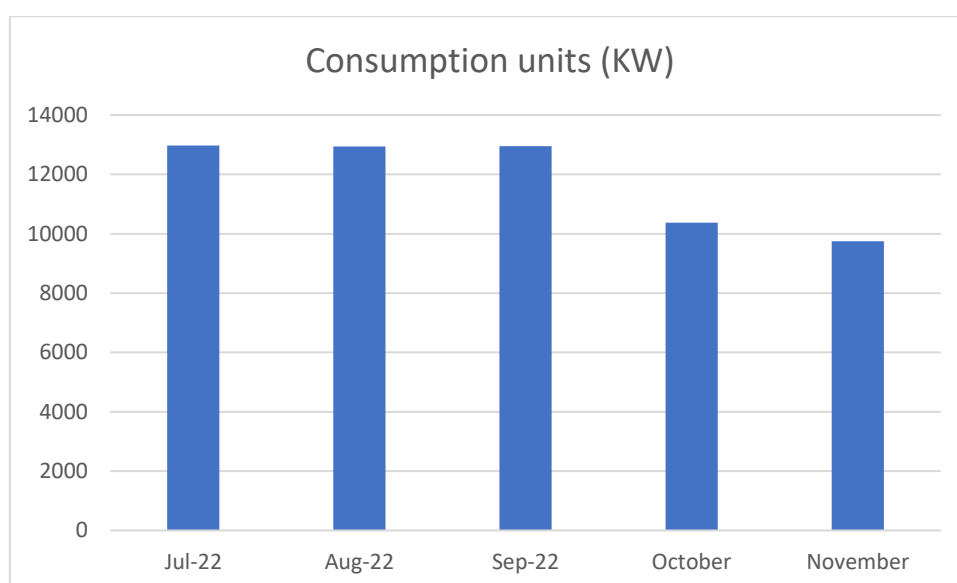


Chart.6: Monthly Unit consumption variation (Kw)

SOLAR ENERGY GENERATION IN KVSRSOPS

KVSR Siddhartha College of Pharmaceutical Sciences

Siddhartha Nagar, Vijayawada

(Daily Readings should be taken between 6AM to 7PM every day without fail)

Kilo Watts Peak: 50KW

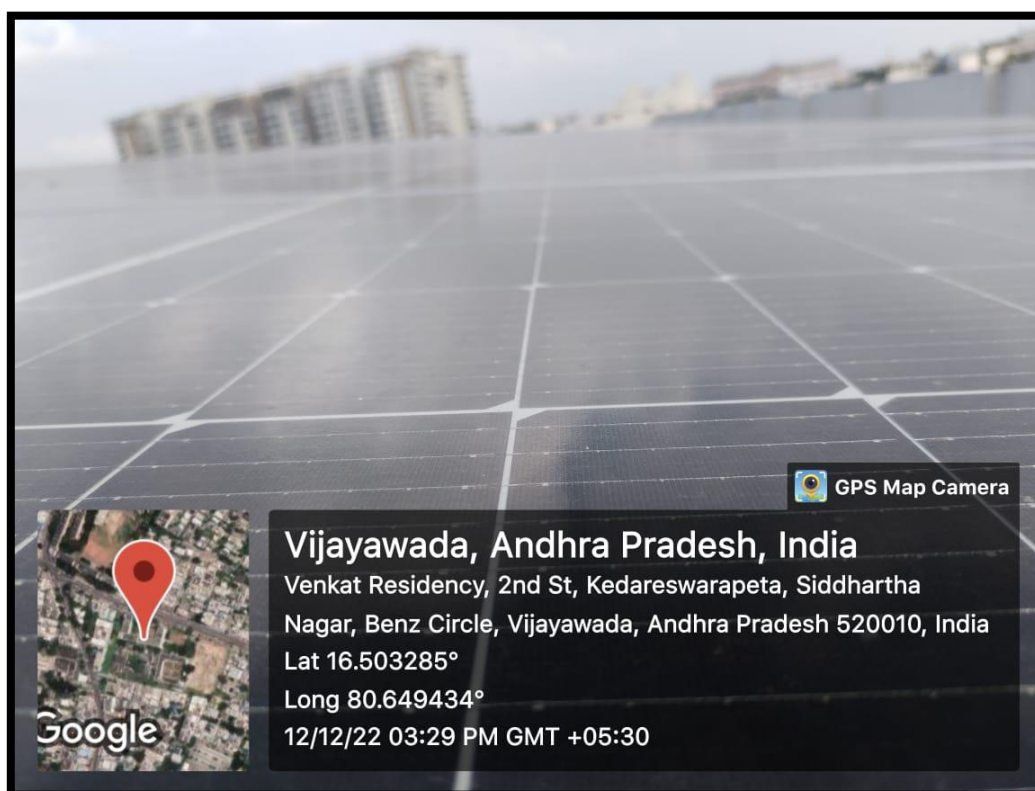
November 2022																	
Day of the month	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Reading																	
Day of the month	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Reading													45	70	-		

December 2022																	
Day of the month	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Reading	70	70	70	70	70	70	70	70	70	70	84	84	84	84			
Day of the month	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Reading	84	84	84	84	84	84	84	84	84	84	84	84	112	112	112		

Installation of Solar Panels



Solar Panels





 GPS Map Camera

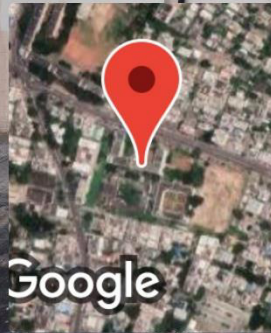
Vijayawada, Andhra Pradesh, India

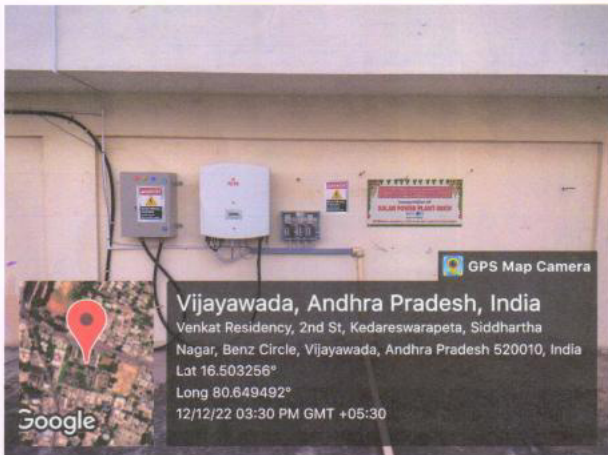
Venkat Residency, 2nd St, Kedareshwarapeta, Siddhartha
Nagar, Benz Circle, Vijayawada, Andhra Pradesh 520010, India

Lat 16.503256°

Long 80.649492°

12/12/22 03:30 PM GMT +05:30







Certificate

HYM International Certifications Pvt. Ltd.

**Certified that the Energy Management System of
KOMMAREDDY VENKATA SADASIWA RAO
SIDDHARTHA COLLEGE OF PHARMACETICAL SCIENCES**

**Pinnamaneni Polyclinic Road, Siddhartha Nagar,
Vijayawada - 520 010, Andhra Pradesh, India**

has been assessed and found to be in accordance with the requirements of the Energy standards

ISO 50001 : 2018

for the following scope of certification

IMPLEMENTATION OF ENERGY SAVING PRACTICES

Further information about the scope of this certificate and applicability of ISO 50001 : 2018 requirements may be obtained by consulting the organization.

Issue Date : 25/01/2022

1st Surveillance 24/01/2023



Renewal Date : 24/01/2025

2nd Surveillance 24/01/2024



Authorised Signature

Certificate No : **En918641460**

HYM International Certifications Pvt. Ltd

NOTE: This Certificate is Valid From 24/01/2023 to 24/01/2024

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies [Europe] Limited who have assessed M/s.HYM International Certifications Pvt. Ltd. against defined criteria and in cognisance of ISO 17021:2015 "Conformity Assessment - Requirements for bodies providing audit and Certification of management Systems".

www.hymcertifications.com on for checking the validation of the Certification

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